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MANNING SEED COMPANY

DEXTER HORTON BUILDING SEATTLE 4, WASHINGTON, U.S.A.

BULLETIN NO. 2

DOUGLAS FIR SEED SOURCES

The parentage of tree seed and the environment in which it is borne greatly influence the quality and rate of growth of all planted forests. Because of this fact, MANNING SEED COMPANY has enlarged its collection area to supply seed from high quality trees in a variety of situations in order to better meet the requirements of our customers.

To insure the integrity of every seed source, our seed has been collected and carefully processed under the direct supervision of technically trained foresters. Each lot of seed is positively identified with the area from which it was collected so that we can duplicate future collections at your request.

We suggest that you follow two principles of sound management in purchasing seed for reforesting your land:

- 1. Play safe by using seed from a climatic environment similar to the area to be reforested.
- 2. Experiment with seed from other environments in an attempt to introduce better trees of faster growth.

We have seed on hand from the locations listed on the attached sheet. Each locality is coded by a system that is based on seed zones as designated by the Pacific Northwest Forest and Range Experiment Station and Published by Leo A. Isaac of that station in his bulletin "Better Douglas-fir Forests from Better Seed".

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AVAILABLE DOUGLAS FIR SEED - by LOT NUMBERS

CERTIFIED MANINGSEED

Region, Zone * and Elevation	COLLECTION AREAS	Nearest Weather * Station Number
Lot No.		
(Region 1) 13-0.5	Forks (Sappho)	7
(Region 2) 22-0.5 51-0.5 53-0.5 (Region 5) 55-1.0 55-2.0 56-1.0 56-2.0	Hoquiam San Juan Camano Island Sequim Sequim Quilcene Quilcene (Louella)	Between 19 and 16 32 33 5 5 14 14 +
(Region 6) 65-1.0 72-1.0 72-2.0 73-1.0	Darrington Enumclaw Enumclaw Graham	51 Between 60 and 71 Between 60 and 72 71
(Region 7) 74-0.5 75-0.5 76-1.0 77-0.5	Elma Yelm Tenino Pe Ell	Between 18 and 84 Between 37 and 81 Between 85 and 37 89
78-2.0 79-1.0 79-2.0 82-1.0 83-2.0 (Region 8) 84-2.0	Ashford (National) Castle Rock Castle Rock Vernonia Yacolt Eslacadia	Between 74 and 76 95 95 113 100 125
	Sweet Home Lowell Cottage Grove Santiam River	Between 153 and 154 159 157 Between 135 and 160
(Region 10)102-2.0	Wind River	105
(Canada) <u>B10-2.0</u>	Shuswap	Rainfall 19 inches

^{*} The first numeral of the Lot Number is the region - see Bulletin No. 1 for full explanation. The second numeral is the exact cone collection zone -- see MANINGSEED Douglas Fir Site Maps for details. The number following the dash is the elevation range in thousands of feet, according to this table:

0.5 = 0 to 500 feet 1.0 = 0 to 1000 feet 2.0 = 1001 to 2000 feet 3.0 = 2001 to 3000 feet

** See Booklet: "Better Douglas Fir Forests from Better Seed", pages 40-45.

Adjustment in weather station data is necessary because of higher elevation.

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The second secon	CERTIFIED MANINGSKED	* 1. · · · · · · · · · · · · · · · · · ·
Hearest Weather		Region, Lone 4
Start on Number	COLLECTION AREAS	and Elevation
		ow dod
All the	Forks (Sappho)	(Region 1) 13-0-5
i		
Between 19 and 16	Hoquiam	(Region 2) 22-0.5
36	San Juan Camano Taland	. 5.0-15
	Seguin	(Region 5) 55-1.0
	Sequim :	55-2.0
	Culldene :	56-1.0
14 117	Quilcene (Louella)	56-2-0
	Darrington	(Rogion 6) 65-1.0
Between 60 and 71		Vel-SV
Between 60 and 72	Enumolaw	72-2,0
71 71	Graham	73-1.0
Batwaon 16 and 84		(Region 7) 74-0.5
- Between 37 and 37 Between 85 and 37		75-0-5
68		77-0-5
Between 74 and 76	Ashford (Mational)	0.8-87
	Captio Rock	79-1.0
		0.5-97
	Vermonia	0.1.0
100 +	Yacolt	0.5-88
125	Erlacadia	(Region 8) 84-2.0
Between 153 and 15h	Sweet !!one	86-1.0
	Liewol	0.1-18
157	Cottage Grove	0.L-88
Between 135 and 160	Santiam Miver	0.5-28
105	Wind River	(Region 10) 102-2.0

The first numeral of the Lot Number is the region - see Bulletin No. 1 for rull explanation. The second numeral in the exact come collection zone -- see MANINGSED Douglas Fir Site Maps for debails. The number following the dash is the elevation range in thousands of feet, according to this table:

3.0 = 0 to 500 feel 1.0 = 0.1 feel 1000 feel 2.0 = 0.2 feel 2000 feel 3.0 = 2001 to 3000 feel 3.0 = 0.5 feel 2000 fe

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We See Booklet: "Better Douglas Fir Forests from Better Seed", pages 11-15.